

ABSTRACT OF THE DISCLOSURE

5 The present invention relates to methods, compositions, compounds and kits for
detecting, measuring and modulating protein ubiquitylation via the N-end rule pathway
and for identifying novel substrates, enzymes and modulators of N-end rule
ubiquitylation. The present invention also relates to specific substrates of N-end rule
10 ubiquitylation as well as activated fragments of these substrates, proteases that expose N-
degrons in these substrates, ubiquitin ligases that ubiquitylate these substrates and
inhibitors of the ubiquitylation of these substrates.